

Appln No.: 09/673,964  
Amendment Dated: September 28, 2004  
Reply to Office Action of April 8, 2004

**Amendments to the Specification:**

**Please cancel the existing abstract and insert a new abstract as follows:**

Physical samples are characterized to determine the content of the samples. A physical sample, or pair of physical samples, and the sample(s) are processed to generate a multidimensional response, calculating the 1-dimensional responses of the components, to provide an indication of the content of the sample or samples. The multidimensional response may be measured by fluorescence or nuclear magnetic resonance.